## Dietary Supplements: Risky Business for Readiness

Accessions Research
Consortium
May 2003

## Learning Objectives

- Provide a Dietary Supplement Overview
- Discuss usage among soldiers
- Describe available dietary supplement awareness/education resources

## Outline The Law The Current Situation What soldiers are using Why they are using supplements The Resources

## A Dietary Supplement is...

a tablet, capsule, powder, soft-gel, or liquid product that contains at least one of the following:

- Vitamin
- Mineral
- Herb or botanical
- Amino acid
- A concentrate, metabolite, constituent, or extract of any of the above

### The Law

- Dietary Supplement Health and Education Act (DSHEA): 1994
  - Dietary supplements are NOT regulated like food and drugs
  - No FDA approval necessary to sell
  - Manufacturer's Responsibility
    - Truthful Labeling
    - Safe Ingredients

## Prevalence of Use Navy Survey

- 71% Special Operations
- 71% Marine Recruits
- 42% Regular Army

Source: Naval Health Research Center Survey, Reported Feb 2000

## Prevalence of Use: Army Survey of ROTC Cadets @ Madigan Army Medical Center (n = 2571)

- 33% used vitamin supplement
- 22.9% used performance enhancing product
- 3.5% used weight loss agent
- Most commonly used supplements
  - Creatine #3
  - Ripped Fuel/ Hydroxycut #4

**Unpublished report: Summer 2001** 

## Top Ten DS Consumed

1. Multivitamin 6. Calcium

2. Vitamin C

7. Vitamin E

**Vitamin A** 

3. Creatine

9. Iron

4. Ephedra

10. Garlic

5. Ginseng

Source: CPT Karen Brasfield, MS, RD: Dietary Supplement Intake in Active Duty Enlisted Population, August 2002

## Top Ten - Among Men

- 1. Multivitamin
- 6. Calcium
- 7. Vitamin E
- 2. Vitamin C
- 8. Garlic

- 3. Creatine
- 9. Vitamin A

- 4. Ginseng
- 10 . Iron

5. Ephedra

Source: CPT Karen Brasfield, MS, RD: Dietary Supplement Intake in Active Duty Enlisted Population, August 2002

## Top Ten - Among Women

- 1. Multivitamin
- 6. Prenatal
- 7. Vitamin A

- 2. Vitamin C
- 8. Vitamin E

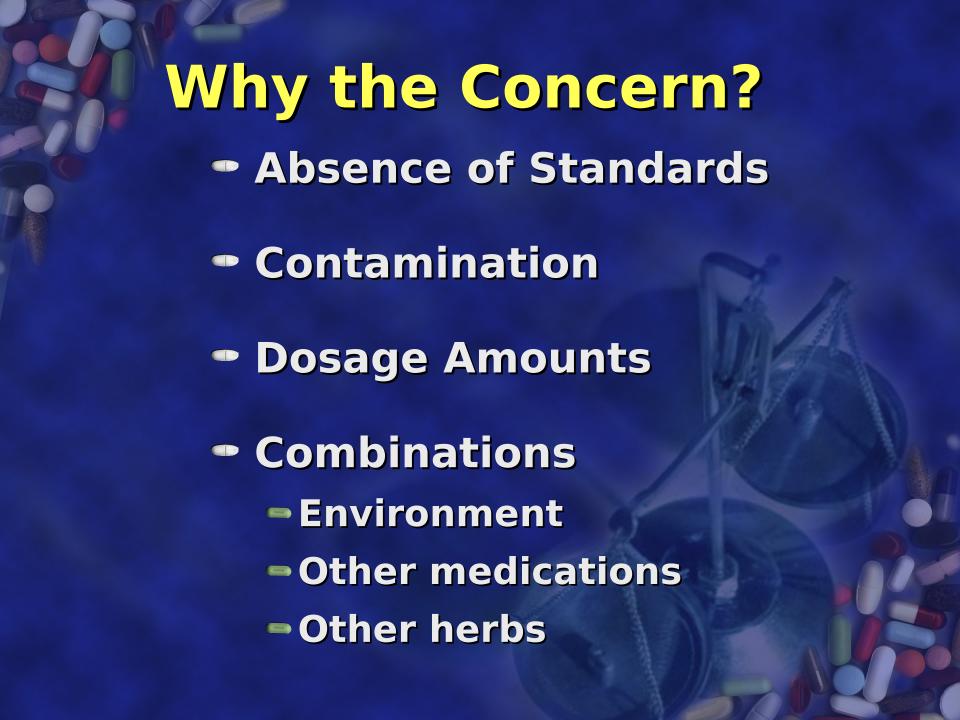
- 3. Calcium
- 4. Ephedra
- 5. Iron

- 9. Ginseng
- 10. Vitamin B6

Source: CPT Karen Brasfield, MS, RD: Dietary Supplement Intake in Active Duty Enlisted Population, August 2002

# Why Do Soldiers Consume Dietary Supplements?

- Promote General Health: 76%
- Performance Enhancement: 54%
- Weight Loss: 23%
- Prevent Illness: 16.5%



### FDA's Most Dangerous

- TRIAC (tiratricol) Chaparral
- Comfrey L-tryptophan
- Yohimbe Dieter's Tea
- GBL & BD Lobelia
- Willow Bark Kava Kava
- Ephedra Aristolochic Acid

## Possible Dangers of Supplement Use

- Dehydration
- Heat-Related Injuries
- Nervousness and Dizziness
- Changes in Blood Pressure and Heart Rate
- Heart Attack
- Stroke
- Seizure
- Psychosis
- Death

# Frequency of Adverse Events Among Supplement Users

- Palpitations: 46%
- Dizziness or Confusion: 30%
- Tremors: 25%
- Abdominal Pain: 24%
- Numbness of Extremities: 16%

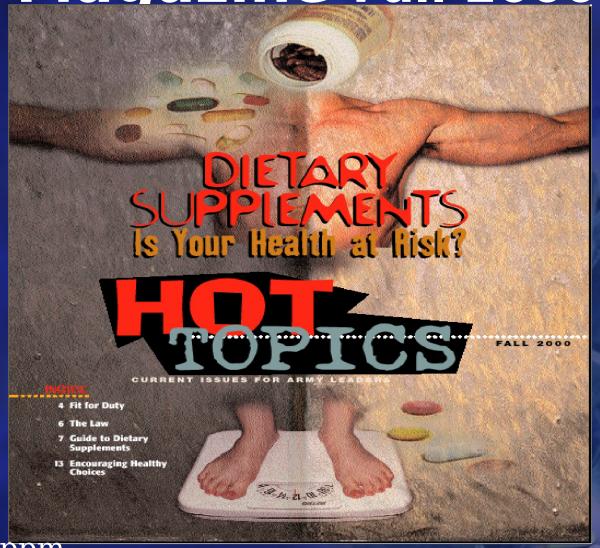
Source: CPT Kurosssoff, Gonsgieuspesst Intak Wactive Duty Enlisted Population, August 2002

# Dietary Supplement Awareness/Educatio n Resources

## Dietary Supplement Website



## Insert in Soldiers Magazine Fall 2000



http://chppm-





#### MODULE

1 Getting Started

#### MODULE

2 Building a Performance Diet

#### MODULE

3 Performance Choices

#### **MODULE**

Fluids: Your Key to Performance

#### MODULE

5 Dietary Supplements: A Basic Guide

#### MODULE

High Caliber Nutrition In The Field

7 Performance Your Weigh

#### Module 5: Dietary Supplements: A Basic Guide

Topics	page
Introduction	5-1
Why Take Dietary Supplements?	5-2
No Magic Potion; Fact Or Fiction	5-2
When Vitamin & Dietary Supplements Benefit	5-3
Sources Of Carbohydrate .	5-4
How Much Protein Does It To Build Muscle?	
Protein Supplements	5-5
Amino Acid Supplements; Sources Of Amino Acid	5-6
To Good To Be True? Advertising Techniques	5-8
Does It Work?	5-9
You Can Choose Wisely	5-14
Summary	5-15

This module of Performance
Nutrition will investigate misleading
nutritional information. This includes
how the marketing of ergogenic
aids and dietary supplements
creates a false idea of what leads
to good nutrition and performance
and how the use of some of these
products may hinder performance
and pose a health risk.

participant's manual: module 5

## **Precautionary Notice**

#### Valued Customers,

- AAFES urges you to *follow all dietary supplement label instructions and warnings* to include recommended serving sizes and frequencies.
- Taking more of the supplement than the label directs may cause medical problems and *will not* increase benefits.
- *Consult your health care provider* if you are taking any prescription or nonprescription drugs or are undergoing examination/treatment for any illness or disease condition.
- **Stop** taking any dietary supplement and consult with your health care provider if you are experiencing headaches, dizziness, visual disturbances, sleeplessness, loss of appetite, nausea or any other unusual symptoms.

Dietary supplements include: vitamins, minerals, energy enhancers, diet pills/formulations, herbs, weight gain/body building formulations. Several supplements may interfere with certain medications or aggravate existing medical conditions. Your health care provider needs to know which dietary supplements you are taking or planning to take.

Pregnant or nursing mothers should also consult with their health care provider prior to use of these products. Some dietary products are intended for use only by persons 18 years or older (again, please read all labels carefully).

For additional information or to REPORT adverse side effects and problems directly to the manufacturer, call the 1-800 number listed on the label. You may also report to the Food and Drug Administration (FDA) by calling 1-800-FDA-1088 or by Internet: (www.fda.gov/medwatch/reports/hcp.htm). AAFES also requests any problems be reported to store management.



## **Leave and Earning** DEFENSE FINANCE AND ACCOUNTING SERVICE MILITARY LEAVE AND EARNINGS STATEMENT ID NAME (Last, First, MI) Soc. Sec. No. GRADE PAY DATE YRS SVC ETS BRANCH ADSINDSSN PERIOD COVERED ARMY ADSINDSSN PERIOD COVERED

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THRIF SAVIN		Pay Rate Ba	M	2	Pay Current	Inc Pay Rate	Inc Pay Cur		y Rate	Bonus Pay Current
PLAN (TSP)			TSP YTD Deduction	ns	Deferre	ed		Exempt		

REMARKS:

YTD ENTITLE YTD DEDUCT

-ALERT!! VALIDATE YOUR DIEMS DATE. GO TO: HTTPS://WWW.PERSCOM.ARMY.MIL

-EFFECTIVE JULY 1, 2003 THE PREMIUM RATES FOR SGLI/FSGLI WILL DECREASE. ANY MEMBER WHO DECLINED OR ELECTED LESS THAN MAX SGLI/FSGLI WILL REMAIN AT THOSE LEVELS AND WILL NOT BE AUTOMATICALLY ENROLLED IN SGLI/FSGLI. GO TO HTTP://WWW.INSURANCE.VA.GOV

DUE! FOR FREE TAX ASSISTANCE AND ELECTRONIC FILING, VISIT YOUR INSTALLATION TAX ASSISTANCE CENTER OR SUPPORTING LEGAL

ASSISTANCE OFFICE.

-MEMBERS DEPLOYED TO COMBAT ZONES OR QUALIFIED HAZARDOUS DUTY AREAS HAVE UP TO 18 DAYS AFTER RETURNING HOME TO FILE FEDERAL TAXES, NO INTEREST OR PENALTIES. GO TO HTTP://WWW.IRS.GOV

-CAUTION!! LEARN MORE ABOUT DIETARY SUPPLEMENTS. VISIT HTTP://CHPPM-WWW.APGEA. ARMY.MIL/DHPW/WELLNESS/DIETARY.ASPX

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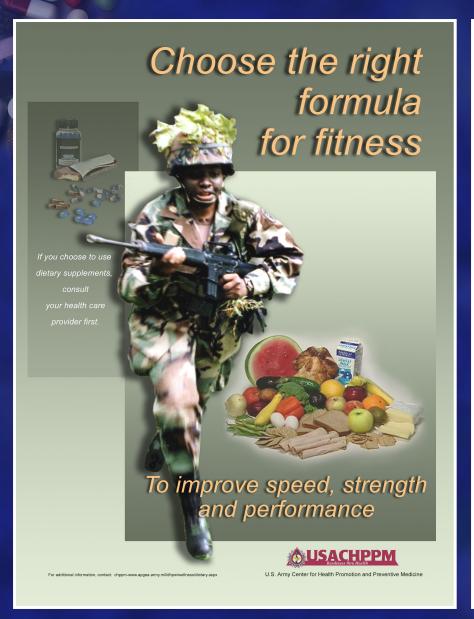
-YOU CAN NOW ACCESS YOUR MILITARY PAY INFORMATION LINE (IVRS) USING YOUR PIN FOR MYPAY (1-800-594-8302).

**CAUTION!! LEARN MORE ABOUT DIETARY** SUPPLEMENTS. -YOUR 2002 FEDERAL AND STATE INCOME TAXES AR VISIT HTTP://WWW.APGEA. ARMY.MIL/DHPW/ WELLNESS/ **DIETARY.ASPX** 

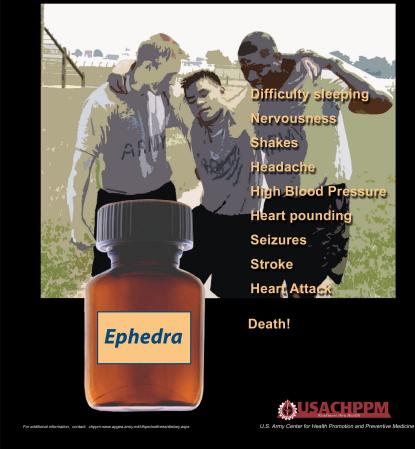
www.dfas.mil

DFAS Form 702, Jan 02

### **Now Available**

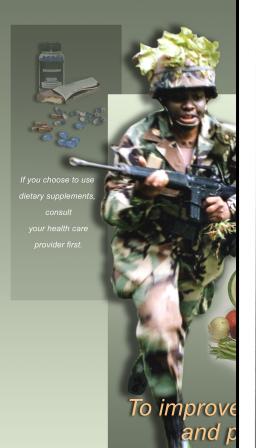


If you are considering taking ephedra, think about these possible risks:



### **Now Available**

#### Choos



**Facts About Dietary** Supplements for the Warfighter

Herbs and Botanicals **Amino Acids** Steroids Vitamins and Minerals



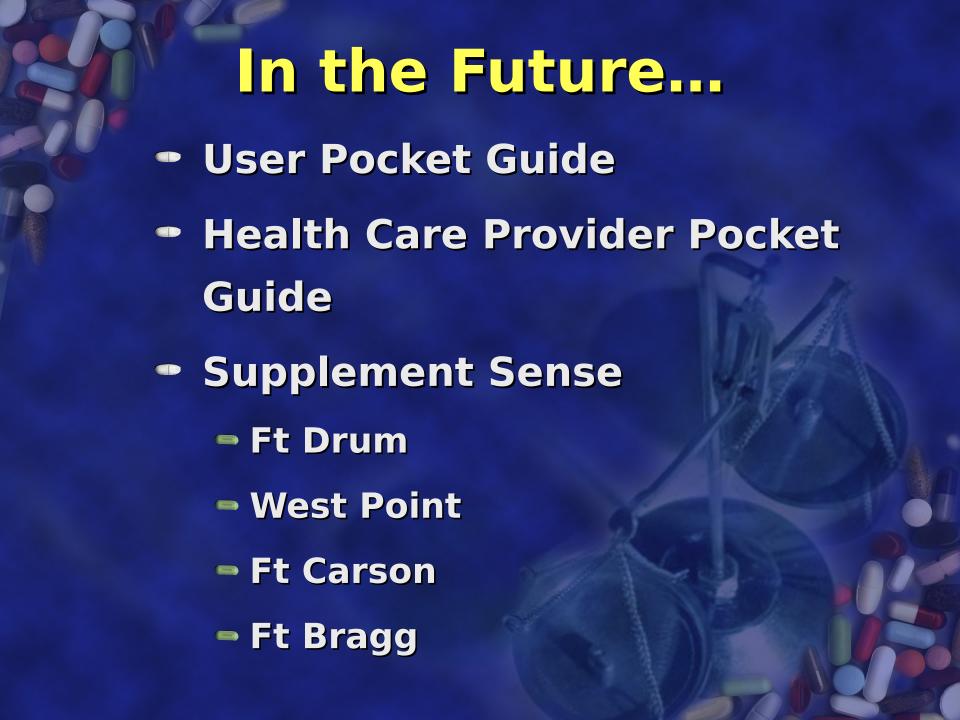
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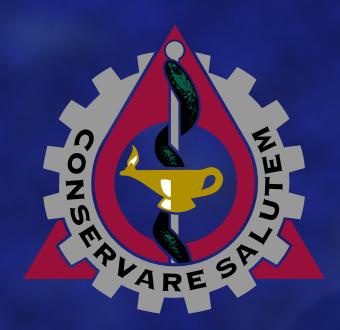


### **Now Available**



No one ever put a warning label on an orange Use food as your best body fuel for strength and power





U.S. Army Center For Health Promotion and Preventive Medicine http://chppm-www.apgea.army.mil/dhpw

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